API NO. 15- 163-23, 170-00-00

County: Rooks

Latitude: NE Sec. 19 Twp. 6S Rge. 20 X

Ft. North from Southeast Corner of Section

Lease Name: Wyrill-19A Well # 2

Field Name: Todd NE

Producing Formation: n/a

Elevation: Ground 2286' KB 2291'

Total Depth: 3830' PBD n/a

Designate Type of Completion:

X New Well

Re-Entry

Oil

Gas

Dry

Temp. Abd.

Delayed Comp.

Other (Core, Water Supply, etc.)

If C/O/WO: old well info as follows:

Operator:

Well Name:

Comp. Date

Old Total Depth

Drilling Method:

X Mud Rotary

Air Rotary

Cable

6/03/91

6/10/91

6/10/91

Spud Date

Date Reached TD

Completion Date

Surface Pipe Set and Cemented at 207' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set n/a Feet

If Alternate II completion, cement circulated from 207' feet depth to surface w/ 170 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]
Title: President
Date: 8/14/91

Subscribed and sworn to before me this 14th day of August 1991.

Notary Public: [Signature]
Date Commission Expires: 6/29/92

Distribution:

K.C.C. Office Use Only

F Letter of Confidentiality Attached
C X Wireline Log Received
C □ Drillers Timelog Received

KGS Plug

NGPA Other

(Specify)
Operator Name: Ritchie Exploration, Inc.

Lease Name: Wyrill-19A

Well #: 2

Sec. 19  Twp. 6S  Rge. 20W  X West

County: Rooks

---

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  □ Yes  □ No
(Attach Additional Sheets.)

Samples Sent to Geological Survey  □ Yes  □ No

Cores Taken  □ Yes  □ No

Electric Log Run  □ Yes  □ No
(Submit Copy.)

---

Formation Description

□ Log  □ Sample

Name

Top  Bottom

(See attached page).

---

CASING RECORD

□ New  □ Used

Report all strings set-conductor, surface, intermediate, production, etc.

<table>
<thead>
<tr>
<th>Purpose of String</th>
<th>Size Hole Drilled</th>
<th>Size Casing Set (in O.D.)</th>
<th>Weight Lbs./ft.</th>
<th>Setting Depth</th>
<th>Type of Cement</th>
<th># Sacks Used</th>
<th>Type and Percent Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface</td>
<td>12 1/2&quot;</td>
<td>8-5/8&quot;</td>
<td>28#</td>
<td>207'</td>
<td>60/40 poz</td>
<td>170</td>
<td>2%g1, 3%CC</td>
</tr>
</tbody>
</table>

---

PERFORATION RECORD

Shots Per Foot

Specify Footage of Each Interval Perforated

---

Acid, Fracture, Shot, Cement Squeeze Record

(Amount and Kind of Material Used)

Depth

---

TUBING RECORD

Size

Set At

Packer At

Liner Run  □ Yes  □ No

---

Date of First Production

Producing Method

□ Flowing  □ Pumping  □ Gas Lift  □ Other (Explain)

---

Estimated Production Per 24 Hours

<table>
<thead>
<tr>
<th>Oil</th>
<th>Bbls.</th>
<th>Gas</th>
<th>Mcf</th>
<th>Water</th>
<th>Bbls.</th>
<th>Gas-Oil Ratio</th>
<th>Gravity</th>
</tr>
</thead>
</table>

---

Disposition of Gas:

□ Vented  □ Sold  □ Used on Lease
(If vented, submit AGO-18.)

---

METHOD OF COMPLETION

□ Open Hole  □ Perforation  □ Dugally Completed  □ Commingled
□ Other (Specify)
DRILL STEM TESTS

DST #1 from 3442' to 3465' (Oread). Recovered 310' of salt water.

DST #2 from 3494' to 3555' (Toronto & Top zone). Recovered 5' of mud with few oil spots.
IFP: 76-76#/30"; ISIP: 576#/30"; FFP: 76-76#/30"; FSIP: 548#/30".

DST #3 from 3555' to 3620' (35'-90' zones). Recovered 330' of muddy water, few spots of oil on top.

DST #4 from 3701' to 3756' (L/KC 220' & Marmaton). Recovered 7' of mud.

DST #5 from 3750' to 3770' (Congl. sand). Recovered 15' of free oil and 90' of watery mud (65% mud, 35% water).
IFP: 67-76#/45"; ISIP: 490#/60"; FFP: 86-96#/45"; FSIP: 461#/60".

DST #6 from 3769' to 3781' (Arbuckle). Recovered 10' of free oil and 80' of oil cut watery mud (5% oil, 60% mud, 35% water).
IFP: 57-57#/45"; ISIP: 480#/60"; FFP: 76-76#/45"; FSIP: 461#/60".

ELECTRIC LOG TOPS

- Anhydrite: 1884' (+ 407)
- B/Anhydrite: 1918' (+ 373)
- Topeka: 3286' (-995)
- Heebner: 3492' (-1201)
- Toronto: 3515' (-1224)
- Lansing: 3531' (-1240)
- B/KC: 3720' (-1429)
- Cong. sand: 3764' (-1473)
- Arbuckle: 3775' (-1484)
- LTD: 3828' (-1537)
# Allied Cementing Co., Inc.

**Home Office P. O. Box 31**

**Russell, Kansas 67665**

---

**Date:** 6-3-91  
**Called Out:** 2011 W 11000  
**On Location:** 6:45 am  
**FROM CONFIDENTIAL**

**Lease:** Warril 19-A  
**Well No.:** #1  
**Location:** OLD 24 HWY + LOGAN RD  
**County:** Rooks  
**State:** Kansas

**Type Job:** Surface

**Hole Size:** 12 1/4  
**T.D.:** 208'  
**Casing:** 8 5/8  
**Depth:** 207  
**Depth:**

**Tool:**

**Cement Left in Casing:** '15  
**Depth:**

**Perf.**

---

## Equipment

<table>
<thead>
<tr>
<th>No.</th>
<th>Pumptrk</th>
<th>Helper</th>
<th>Cementer</th>
<th>Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>177</td>
<td></td>
<td></td>
<td>Will</td>
<td>Joe</td>
</tr>
<tr>
<td>213</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Depth of Job

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Truck Chg.</td>
<td>380.00</td>
<td></td>
</tr>
<tr>
<td>300 per mile</td>
<td>72.00</td>
<td></td>
</tr>
<tr>
<td>1-8 5/8 Wooden Wire Plug</td>
<td>42.00</td>
<td></td>
</tr>
</tbody>
</table>

**Sub-Total:** 494.00

**Tax:**

---

**Remarks:** Cement Circulated

---

**Charge To:** Ritchie Exploration Inc.  
**Street:** 125 N Market # 1000  
**City:** Wichita  
**State:** Kansas

**The above was done to satisfaction and supervision of owner agent or contractor.**

**Purchase Order No.:**

**Cement**

| Amount | Ordered | 170 5K 6 1/2 22po | 320.00 |

**Consisting of**

<table>
<thead>
<tr>
<th>Description</th>
<th>Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>402 @ 5.25</td>
</tr>
<tr>
<td>PZ Mix</td>
<td>68 @ 2.15</td>
</tr>
<tr>
<td>Gel</td>
<td>20 N/C</td>
</tr>
<tr>
<td>Chloride</td>
<td>10 @ 24.00</td>
</tr>
</tbody>
</table>

**Quickset:**

**Sales Tax:**

<table>
<thead>
<tr>
<th>Handling</th>
<th>Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 1/2</td>
<td>170.00</td>
</tr>
<tr>
<td>Mileage</td>
<td>4 1/2 / SK / MILE</td>
</tr>
</tbody>
</table>

**3% Sub Total:**

**Total:** 1208.3

---

**RECEIVED**

**KANSAS CORPORATION COMMISSION**

**SEP 16 1991**

**CONSERVATION DIVISION**

**WICHITA, KS**

---

**JUN 10 1991**
**EQUIPMENT**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>191</td>
<td>No.</td>
<td>M. Kaufman</td>
</tr>
<tr>
<td></td>
<td>Pumptrk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Helper</td>
<td>Wayne M.</td>
</tr>
<tr>
<td>155</td>
<td>Bulktrk</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Driver</td>
<td>Jason C.</td>
</tr>
</tbody>
</table>

**DEPTH of Job**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>#91</td>
<td>Pump Trk</td>
<td>380</td>
</tr>
<tr>
<td>1-8 3/8” Plug</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>2.00 per mile</td>
<td>72</td>
<td></td>
</tr>
</tbody>
</table>

**Sub Total**

- Handling: 1.00
- Mileage: 40, 36 miles

**Total**

- 1,514.25

**Remarks:**

- 25 SKS @ 3764
- 25 SKS @ 1910
- 100 SKS @ 1190
- 40 SKS @ 260
- 10 SKS @ 40
- 15 SKS in Rat Hole
- 10 SKS in Moose Hole